**DEPARTMENT OF WATER RESOURCES DEVELOPMENT & MANAGEMENT**

**INDIAN INSTITUTE OF TECHNOLOGY ROORKEE**

**Training program on**

**WATER, SANITATION, AND HYGIENE (WASH)**

**Venue: Department of WRD&M, IIT, Roorkee**

Course outline: This course will cover the issues and challenges related to water, sanitation, and hygiene (WASH) and related infrastructure in the context of tropical public health. The course will cover drinking water security involving quantity (with appropriate sources), quality (with appropriate treatment options), and supply and demand management aspects, sanitation technologies (various types of latrines, sewers, and septic systems), including construction and use. It will also cover wastewater treatment and disposal. It will cover hygiene in a tropical context. This includes essential hygiene practices in rural, urban, and peri-urban settings and underwater abundance and water stress conditions. Additional topics to be addressed will be KAP, MEAL, assessment of current practices, behavior change techniques, etc. The course will emphasize the appropriate use of peer-reviewed literature and critical-thinking skills.

**TIME TABLE**

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| --- | --- | --- | --- | --- |
| **Date** | **14:00-15:00** | **15:00-16:00** | **16:00-17:00** | **17:00-18:00** |
| Day-1 | On line Registration, Inaugural Function (AP/MLK), Course orientation and introduction to various facilities of  IIT Roorkee (AP/MLK) | L1 | L2 | L3 |
| Day-2 | L4 | L5 | L6 | L7 |
| Day-3 | L8 | L9 | Group Discussion | Filling of Online Response Form & Valedictory Function |

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| **Lr. No.** | **Topics** |
| **1.** | Knowledge, Attitude and Practice (KAP) for Sustainable WASH services. |
| **2.** | Drinking water sources and its protection |
| **3.** | Source & Finished Water Quality Standards protection |
| **4.** | Water treatment processes and disinfectant requirements. |
| **5.** | Water Distribution Systems & its Impact of Reliable Water Supply at Tap Level protection |
| **6.** | Wastewater collection, treatment & Disposal |
| **7.** | Sanitation facilities - latrines, sewers, and septic systems |
| **8.** | Hygiene promotion among rural & urban community |
| **9.** | WASH: Governance, accountability, and the enabling environment (Participatory Approach, Infrastructural & environmental modifications) |

**(Prof. M.L. Kansal)**

**Course Coordinator**